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Atty. Dkt. No. 034536-1595

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Gregory D. PLOWMAN et al.
Title: DIAGNOSIS AND TREATMENT OF ALK-7 RELATED DISORDERS
Appl. No.: 10/849,518
Filing Date: 05/20/2004
Examiner: Unassigned
Art Unit: Unassigned

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The USPTO has waived the requirement under 37 CFR 1.98(a)(2)(i) to submit copies of U.S. patents and U.S. patent application publications when citing and submitting an Information Disclosure Statements in a patent application filed after June 30, 2003 and in an international application that has entered the national stage under 37 USC §371 after June 30, 2003. Accordingly, copies of these types of documents are not being supplied in connection with this application. Reference is being made to OG Notice dated August 5, 2003, *Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003.*

Applicants submit herewith on Form PTO/SB/08 a listing of the documents cited by or submitted to the U.S. PTO in parent application Serial No. 09/069,228, filed 04/27/1998. As provided in 37 CFR §1.98(d), copies of the documents are not being provided since they were previously submitted to the United States Patent & Trademark Office in the above-identified parent application.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.


TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

Applicants respectfully request that the listed documents be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

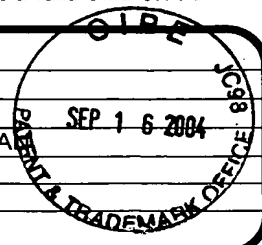
Date 16 September 2004 By 

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Sheet	1	of	14	Attorney Docket Number	034536-1595



U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	A1	4,343,940		KREIGHBAUM et al.	08-10-1982	
	A2	4,376,110		DAVID et al.	03-08-1983	
	A3	4,447,608		JONES et al.	05-08-1984	
	A4	4,757,072		KABBE et al.	07-12-1988	
	A5	4,945,050		SANFORD et al.	07-31-1990	
	A6	5,168,050		HAMMONDS, JR. et al.	12-01-1992	
	A7	5,217,999		LEVITZKI et al.	06-08-1993	
	A8	5,283,173		FIELDS et al.	02-01-1994	
	A9	5,302,606		SPADA et al.	04-12-1994	
	A10	5,316,553		KAUL et al.	05-31-1994	
	A11	5,330,992		EISSENSTAT et al.	07-19-1994	
	A12	5,602,171		TANG et al.	02-11-1997	
	A13	5,614,609		IBANEZ et al.	03-25-1997	
	A14	5,789,565		IBANEZ et al.	08-04-1998	
	A15	5,811,245		IBANEZ et al.	09-22-1998	

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	A16	EP	0 520 722	A1	ICI PLC	12-30-1992		
	A17	EP	0 566 226	A1	ZENECA LTD	10-20-1993		
	A18	EP	0 562 734	A1	ZENECA LTD	09-29-1993		
	A19	WO	91/15495	A1	PFIZER INC.	10-17-1991		
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	A22	WO	93/09236	A1	BAYLOR COLLEGE OF MEDICINE	05-13-1993		
	A23	WO	93/10242	A1	COLD SPRING HARBOR LABORATORY	05-27-1993		
	A24	WO	94/01119	A1	NATIONAL UNIVERSITY OF SINGAPORE	01-20-1994		
	A25	WO	94/14808	A1	FARMITALIA CARLO ERBA S.R.L.	07-07-1994		
	A26	WO	94/23039	A1	THE INSTITUTE OF CANCER RESEARCH: ROYAL CANCER HOSPITAL	10-13-1994		
	A27	WO	95/06735	A2	THE LUDWIG INSTITUTE FOR CANCER RESEARCH	03-09-1995		
	A28	WO	96/34985	A1	PHARMACIA S.P.A.	08-01-1996		
	A29	WO	96/34985	A1	SUGEN, INC.	11-07-1996		

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	A30	ABE et al., "Molecular Characterization of a Novel Metabotropic Glutamate Receptor mGluR5 Coupled to Insitol Phosphate/Ca ²⁺ Signal," <u>J. Biol. Chem.</u> , 1992, PP. 13361-13368, Vol. 267, No. 19	
	A31	Accession number AR021339 on GenEmbl database, December 1998	
	A32	ALLEN et al., "Modulation of CD4 by suramin," <u>Clin. Exp. Immunol.</u> , 1991, pp. 141-146, Vol. 91	
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	A37	BAKER et al., "Induction of acetylcholine receptor clustering by native polystyrene beads," <u>Journal of Cell Science</u> , 1992, pp. 543-555, Vol. 102	
	A38	BARKER et al., "In vitro activity of non-glutamate containing quinazoline-based thymidylate sunthase inhibitors," <u>Proceedings of the American Association for Cancer Research</u> , 1991, p. 327 at abstract No. 1939, Vol. 32	
	A39	BASSING et al., "A Transforming Growth Factor β Type I Receptor that Signals to Activate Gene Expression," <u>Science</u> , 1994, p. 87, Vol. 263	
	A40	BAYER et al., "The Avidin-Biotin Complex in Affinity Cytochemistry," <u>Methods in Enzymology</u> , 1979, pp. 308-319, Vol. 62	
	A41	BENOIST et al., "In vivo sequence requirements of the SV40 early promoter region," <u>Nature</u> , 1981, pp. 304-310, Vol. 290	
	A42	BERTINO et al., "Toward improved selectivity in cancer chemotherapy: the Richard and Hinda Rosenthal Foundation Award Lecture," <u>Cancer Research</u> , 1979, pp. 293-304, Vol. 39	

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	A43	BIGNER et al., "Structural chromosomal abnormalities in human medulloblastoma," <u>Cancer Genet. Cytogenet.</u> , 1988, pp. 91-101, Vol. 30	
	A44	BILDER et al., "Tyrophostins inhibit PDGF-induced DNA synthesis and associated early events in smooth muscle cells," <u>Am. J. Physiol.</u> , 1991, pp. C721-C730, Vol. 260, Vol. 29	
	A45	BOLLON et al., "DNA transformation efficiency of various bacterial and yeast host-vector systems," <u>Journal of Clinical Hematology and Oncology</u> , 1980, pp. 39-487, Vol. 10, Nos. 2 & 3	
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	A53	BURKE et al., "Arylamides of Hydroxylated Isoquinolines as Protein-Tyrosine Kinase Inhibitors," <u>Bioorganic & Medical Chemistry Letters</u> , 1992, pp. 1771-1774, Vol. 2, No. 12	
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	A56	CAPECCHI, "Altering the Genome by Homologous Recombination," <u>Science</u> , 1989, pp. 1288-1292, Vol. 244	
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	A59	CHARD, <u>An Introduction to Radioimmunoassay and Related Techniques</u> , 1986, Elsevier Science Publishers, Amsterdam, The Netherlands	
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	A64	CURIEL et al., "Adenovirus Enhancement of Transferring-Polylysine-Mediated Gene Delivery," <u>Proc. Natl. Acad. Sci. USA</u> , October 1991, pp. 247-252, Vol. 6	
	A65	CURIEL et al., "Gene Transfer to Respiratory Epithelial Cells via the Receptor-mediated Endocytosis Pathway," <u>Am. J. Respir. Cell. Mol. Biol.</u> , 1992, pp. 247-252, Vol. 6	
	A66	CURTIN et al., "Inhibition of the growth of human hepatocellular carcinoma in vitro and in athymic mice by a quinazoline inhibitor of thymidylate synthase, CB3717," <u>Br. J. Cancer</u> , 1986, pp. 361-368, Vol. 53	
	A67	DIJKE et al., "Activin Receptor-like Kinases: A Novel Subclass of Cell-Surface Receptors with Predicted Serine/Threonine Kinase Activity," <u>Oncogene</u> , 1993, p. 2879, Vol. 8	
	A68	DOLLE et al., "5,7-Dimethoxy-3-(4-pyridinyl)auinoline is a Potent and Selective Inhibitor of Human Vascular - Type Platelet - Derived Growth Factor Receptor Tyrosine Kinase," <u>J. Med. Chem.</u> , 1994, pp. 2627-2629, Vol. 37	

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	A69	DONG et al., "Protein Tyrosine Kinase Inhibitors Decrease Induction of Nitric Oxide Synthase Activity in Lipopolysaccharide-Responsive and Lipopolysaccharide-Nonresponsive Murine Macrophages," <u>The Journal of Immunology</u> 151(5):2717-2724 (1993).		
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	A74	FELGNER et al., "Lipofection: A Highly Efficient, Lipid-mediated DNA-transfection Procedure," <u>Proc. Natl. Acad. Sci. USA</u> 84:7413-7417 (1987).		
	A75	FERNANDES et al., "Biochemical and Antitumor Effects of 5,8-Dideazaisopteroylglutamate, a Unique Quinazoline Inhibitor of Thymidylate Synthase," <u>Cancer Research</u> 43:1117-1123 (1983).		
	A76	FERRIS et al., "Synthesis of Quinazoline Nucleosides from Ribose and Anthranilonitrile. Application of Phase-Transfer Catalysis in Nucleoside Synthesis," <u>J. Org. Chem.</u> 44(2):173-178 (1979).		
	A77	FIELDS et al., "Cell Surface Markers for Distinguishing Different Types of Rat Dorsal Root Ganglion Cells in Culture," <u>Cell</u> , 1978, p. 43, Vol. 14		
	A78	FINGL and WOODBURY, "Chapter 1- General Principles," in <u>The Pharmacological Basis of Therapeutics</u> , 5 th Edition, Goodman and Gilman, Eds., MacMillan Publishing Co., Inc. New York, pp. 1-46, 1975		
	A79	FRANZEN et al., "Cloning of a TGFβ Type I Receptor that Forms a Heteromeric Complex with the TGFβ Type II Receptor," <u>Cell</u> , 1993, p. 681, Vol. 75, No. 4		
	A80	FRY et al., "A Specific Inhibitor of the Epidermal Growth Factor Receptor Tyrosine Kinase," <u>Science</u> 265:1093-1095 (1994).		
	A81	GAZIT et al., "Tyrphostins 1. Synthesis and Biological Activity of Protein Tyrosine Kinase Inhibitors," <u>J. Med. Chem.</u> 32:2344-2352 (1989).		

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		Group Art Unit	Unassigned
		Examiner Name	Unassigned
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		Attorney Docket Number	034536-1595

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		Application Number	10/849,518		
		Filing Date	05/20/2004		
		First Named Inventor	Gregory D. PLOWMAN		
		Group Art Unit	Unassigned		
		Examiner Name	Unassigned		
Sheet	13	of	14	Attorney Docket Number	034536-1595

NON PATENT LITERATURE DOCUMENTS			
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	A161	SIKORA and GRZELAKOWSKA-SZTABERT, "Quinazoline CB 3717 and CB 3703 Inhibitors of Folate Retention and Metabolism in Ehrlich Ascites Carcinoma Cells and Some Organs of the Host-Mouse," <u>Cancer Letters</u> 23:289-295 (1984).	
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	A168	STRAUSBERG, "National Cancer Institute, Cancer Genome Anatomy Project," <u>EMBL Database</u> , entry HS1185621; accession number AA281242, 1997	
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	A171	TSUCHIDA et al., "Molecular Cloning of a Novel Type I Receptor Serine/Theonine Kinase for the TGFβ Superfamily from Rat Brain," <u>Molec. Cell. Neurosci.</u> , 1996, p. 467, Vol. 7	
	A172	ULMANEN et al., "Transcription and Translation of Foreign Genes in Bacillus subtilis by the Aid of a Secretion Vector," <u>Journal of Bacteriology</u> 162:176-182 (1985).	
	A173	VERMA et al., <u>Nature</u> , 1997, pp. 239-242, Vol. 389	

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	A174	VOEIKOVA et al., <u>Biotekhnologiya</u> , 1988, pp. 176-182, Vol. 4, ABSTRACT ONLY	
	A175	von HEIJNE, "A New Method for Predicting Signal Sequence Cleavage Sites," <u>Nucleic Acids Research</u> , 1986, pp. 4683-4691, Vol. 14, No. 11	
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	A177	WEIR (eds), "Ch. 10--The chemistry and standardization of allergens," in <u>Handbook of Experimental Immunology--Volume 1: Immunochemistry</u> , 4th Ed., edited by Weir et al., Blackwell Scientific Publications, Oxford, England, pp. 10.1-10.28 (1986).	
	A178	WOLBRING et al., "Inhibition of GTP-utilizing Enzymes by Tyrphostins," <u>J. Biol. Chem.</u> 269:22470-22472 (1994).	
	A179	WRANA et al., "Mechanism of Activation of the TGF- β Receptor," <u>Nature</u> , 1994, pp. 341-347, Vol. 370	
	A180	YANG et al., "In Vivo and In Vitro Gene Transfer to Mammalian Somatic Cells by Particle Bombardment," <u>Proc. Natl. Acad. Sci. USA</u> 87:9568-9572 (1990).	
	A181	YONEDA et al., "The Antiproliferative Effects of Tyrosine Kinase Inhibitors Tyrphostins on a Human Squamous Cell Carcinoma in Vitro and in Nude Mice," <u>Cancer Research</u> 51:4430-4435 (1991).	

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